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HEWLETT-PACKARD COMPANY			LY, ANH	
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Fort Collins, Co		,	2162	
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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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		Application No.	Applicant(s)				
Office Action Summary		09/927,163	WILKES, JOHN				
		Examiner	Art Unit				
		Anh Ly	2162				
Period fo	The MAILING DATE of this communicat or Reply	tion appears on the cover sheet v	ith the correspondence address				
A SHOTHE I  - Externafter - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA asions of time may be available under the provisions of 3's SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutore to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a cation. 8 ys, a reply within the statutory minimum of the statutory within the statutory minimum of the statutory will expire SIX (6) MC by statute, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed of	on <u>27 October 2004</u> .					
2a)	This action is <b>FINAL</b> . 2b)	☐ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>1-25</u> is/are pending in the appleau) Of the above claim(s) is/are valued.  Claim(s) <u>1-25</u> is/are allowed.  Claim(s) <u>1-25</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction	withdrawn from consideration.					
Applicati	on Papers						
10) <b>⊠</b>	The specification is objected to by the E The drawing(s) filed on <u>09 August 2001</u> Applicant may not request that any objectio Replacement drawing sheet(s) including the The oath or declaration is objected to by	is/are: a) accepted or b) controls and accepted or b) accepted or b) accepted or b) accepted in abeyone correction is required if the drawing accepted if the drawing accepted in accepted or b).	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of: <ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> <li>Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol> </li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO- r No(s)/Mail Date	-948) Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)	•			

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## **DETAILED ACTION**

- 1. This Office Action is response to Applicant's response filed on 10/27/2004.
- 2. Claim 26 is cancelled.
- 3. Claims 1-25 are pending in this application.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-4, 6-7, 10-15, and 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,772,155 issued to Stegelmann in view of US Patent No. 6,816,891 issued to Vahalia et al. (hereinafter Vahalia).

With respect to claim 1, Stegelmann teaches receiving a request for access to data stored on the data storage media (see fig. 1, a request is issued to access the data storage on the storage unit such as floppy disk, CD or DVD media: col. 26, lines 25-67, col. 2, lines 52-62 and col. 4, lines 50-56);

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determining whether the request is of the first type or the second type (a request is a transaction and each transaction includes one or more requests: col. 4, lines 50-67 and col. 5, lines 1-38); and

accessing the data when the request is of the second type (see fig. 6 and col. 18-35).

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach loading a program from the storage media, receiving a request from storage media and calling the first routine for accessing the data when the request is of the first type and calling the second routine and presenting the requested data.

.However, Vahalia teaches a set of data processors for receiving requests from clients and a second set of data process for accessing file system and various of program modules stored in the cached disk system to be loaded for accessing the requests and receiving the request as well as calling the module or routine or operation for accessing the request (see fig. 9, col. 17, lines 5-18. col. 7, lines 20-67 and col. 8, lines 1-26) and presenting the information in the display device.(col. 5, lines 30-32).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60),

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would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The

motivation being to minimize problems caused by the different types of storage devices

having different data storage formats.

With respect to claim 2, Stegelmann teaches wherein the first routine implements a first set of operations and the second routine implements a second set of operations (file system operations and archiving operations: col. 8, lines 28-40, col. 9, lines 18-55 and col. 10, lines 36-47).

With respect to claim 3, Stegelmann teaches wherein the first set of operations including file system operations (col. 9, lines 35-55).

With respect to claim 4, Stegelmann teaches standardized archival operations (col. 10, lines 36-47).

With respect to claim 6, Stegelmann teaches wherein the first request type includes a request for one or more files from a file system (see fig. 2 and col. 9, lines 35-40).

With respect to claims 7, and 10-14, Stegelmann teaches a method as discussed in the claim 1.

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach a file structure.

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However, Vahalia teaches a file directory (see fig. 9, col. 11, lines 25-40 and col. 12, lines 1-20), backup services (col. 7, lines 22-50 and col. 5, lines 48-58).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

With respect to claim 15, Stegelmann teaches having data stored thereon and having computer readable program code thereon, the computer readable program code including a first routine for accessing the data in response to a request for access to the data as one or more raw data blocks and a second routine for accessing the data in response to a request for access to the data as a file structure (see fig. 1, a request is issued to access the data storage on the storage unit such as floppy disk, CD or DVD media: col. 26, lines 25-67, col. 2, lines 52-62 and col. 4, lines 50-56; a request is a transaction and each transaction includes one or more requests: col. 4, lines 50-67 and col. 5, lines 1-38, and see fig. 6 and col. 18-35).

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or

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transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach loading a program from the storage media, receiving a request from storage media and calling the first routine for accessing the data when the request is of the first type and calling the second routine and presenting the requested data.

.However, Vahalia teaches a set of data processors for receiving requests from clients and a second set of data process for accessing file system and various of program modules stored in the cached disk system to be loaded for accessing the requests and receiving the request as well as calling the module or routine or operation for accessing the request (see fig. 9, col. 17, lines 5-18. col. 7, lines 20-67 and col. 8, lines 1-26) and presenting the information in the display device.(col. 5, lines 30-32).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

With respect to claims 18-21, Stegelmann an article of manufacture as discussed in claim 15.

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard

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disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach file directory.

However, Vahalia teaches a file directory (col. 11, lines 25-67).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

With respect to claim 22, Cabrera teaches having data stored thereon and having computer readable program code thereon, the computer readable program code including a first routine for accessing the data in response to a request from a first target system type and a second routine for accessing the data in response to a request from a second target system type (see fig. 1, a request is issued to access the data storage on the storage unit such as floppy disk, CD or DVD media: col. 26, lines 25-67, col. 2, lines 52-62 and col. 4, lines 50-56; a request is a transaction and each transaction includes one or more requests: col. 4, lines 50-67 and col. 5, lines 1-38, and see fig. 6 and col. 18-35).

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Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach loading a program from the storage media, receiving a request from storage media and calling the first routine for accessing the data when the request is of the first type and calling the second routine and presenting the requested data.

.However, Vahalia teaches a set of data processors for receiving requests from clients and a second set of data process for accessing file system and various of program modules stored in the cached disk system to be loaded for accessing the requests and receiving the request as well as calling the module or routine or operation for accessing the request (see fig. 9, col. 17, lines 5-18. col. 7, lines 20-67 and col. 8, lines 1-26) and presenting the information in the display device.(col. 5, lines 30-32).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

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With respect to claims 23-24, Stegelmann teaches a method as discussed in the claim 22.

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach a file structure.

However, Vahalia teaches a file directory (see fig. 9, col. 11, lines 25-40 and col. 12, lines 1-20), backup services (col. 7, lines 22-50 and col. 5, lines 48-58).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

With respect to claim 25, Stegelmann teaches having data stored thereon and having computer readable program code stored on a secondary storage associated with the computer usable medium, the computer readable program code including a first routine for accessing the data in response to a request from a first target system type and a second routine for accessing the data in response to a request from a second

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target system type (see fig. 1, a request is issued to access the data storage on the storage unit such as floppy disk, CD or DVD media: col. 26, lines 25-67, col. 2, lines 52-62 and col. 4, lines 50-56; a request is a transaction and each transaction includes one or more requests: col. 4, lines 50-67 and col. 5, lines 1-38, and see fig. 6 and col. 18-35).

Stegelmann teaches instructions of the various software routine or modules being stored on one or more storage units such as floppy disks, CD, DVD media, a hard disk or transported through a network interface card (col. 26, lines 25-62) and request or transaction is issued to perform the request such as updating or archiving. Stegelmann does not clearly teach loading a program from the storage media, receiving a request from storage media and calling the first routine for accessing the data when the request is of the first type and calling the second routine and presenting the requested data and the secondary storage into a cartridge for the data storage media.

. However, Vahalia teaches a set of data processors for receiving requests from clients and a second set of data process for accessing file system and various of program modules stored in the cached disk system to be loaded for accessing the requests and receiving the request as well as calling the module or routine or operation for accessing the request (see fig. 9, col. 17, lines 5-18. col. 7, lines 20-67 and col. 8, lines 1-26) and tape cartridge (col. 7, lines 15-22).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann with the teachings of Vahalia, wherein the software modules being stored on the storage units

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are transported into the system provided therein (Stegelmann's col. 26, lines 50-60), would incorporate the use of loading the software program for accessing the request, in the same manner as described by Vahalia (col. 5, lines 30-32 and see fig. 9). The motivation being to minimize problems caused by the different types of storage devices having different data storage formats.

6. Claim 5 is are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,772,155 issued to Stegelmann in view of US Patent No. 6,816,891 issued to Vahalia et al. (hereinafter Vahalia) and further in view of Pub. No. 2002/0152194 of Ramaprakash H. Sathyanarayan (hereinafter Sathyanarayan).

With respect to claim 5, Stegelmann in view of Vahalia discloses a method for retrieving data from a data storage media as discussed in claim 1.

Stegelmann and Vahalia disclose substantially the invention as claimed.

Stegelmann and Vahalia do not teach wherein the second set of operations includes operations selected from CPIO and TAR.

However, Sythyanarayan teaches utilities in a Unix Operating system consisting of CPIO (COpy In/Out) and TAR (Tape Archiver) (Page 1, section 0001).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann in view of Vahalia with the teachings of Sythyanarayan by incorporating the use of Unix Operating system's archiving utilities for backing up systems, creating file archives. The motivation

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being to speed up archival operations and a copy process is also speeded up by transferring data from /to data storage media and to minimize problems caused by the different types of storage devices having different data storage formats.

7. Claims 8-9 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,772,155 issued to Stegelmann in view of US Patent No. ,816,891 issued to Vahalia et al. (hereinafter Vahalia) and further in view of US Patent No. 5,276,867 issued to Kenley et al. (hereinafter Kenley).

With respect to claims 8-9, Stegelmann in view of Vahalia discloses a method for retrieving data from a data storage media as discussed in claim 1.

Stegelmann and Vahalia disclose substantially the invention as claimed.

Stegelmann and Vahalia do not teach wherein the second request type includes a request for one or more logical volumes; wherein the second request type includes a request for an image copy of the data.

However, Kenley teaches request for logical volume (coll. 17, lines 42-56 and image backup (col. 7, lines 51-62 and col. 8, lines 15-25).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Stegelmann in view of Vahalia with the teachings of Sythyanarayan by incorporating the use of Unix Operating system's archiving utilities for backing up systems, creating file archives. The motivation being to speed up archival operations and a copy process is also speeded up by

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transferring data from /to data storage media and to minimize problems caused by the different types of storage devices having different data storage formats.

With respect to claims 16-17, Cabrera in view of Irwin and Vahalia discloses an article of manufacture as discussed in claim 15.

Cabrera, Irwin and Vahalia disclose substantially the invention as claimed.

However, Cabrera, Irwin and Vahalia do not teach wherein the second request type includes a request for one or more logical volumes; wherein the second request type includes a request for an image copy of the data.

However, Kenley teaches request for logical volume (col. 17, lines 42-56 and image backup (col. 7, lines 51-62 and col. 8, lines 15-25).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cabrera in view of Irwin and Vahalia with the teachings of Sythyanarayan by incorporating the use of Unix Operating system's archiving utilities for backing up systems, creating file archives. The motivation being to speed up archival operations and a copy process is also speeded up by transferring data from /to data storage media and to minimize problems caused by the different types of storage devices having different data storage formats.

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## **Contact Information**

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh Ly whose telephone number is (571) 272-4039 or via E-Mail: <u>ANH.LY@USPTO.GOV</u> or fax to (571) 273-4039. The examiner can normally be reached on TUESDAY – THURSDAY from 8:30 AM – 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene, can be reached on (571) 272-4107 or Primary Examiner Jean Corrielus (571) 272-4032.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or faxed to: Central Fax Center (703) 872-9306

ANH LY/WAR. 4<sup>th</sup>, 2005